

Schedule No. 1 – High Dose Radiotherapy (HDR Brachytherapy) Unit

Techno-Commercial Evaluation of Tender No. 04/MPPHSC/DME/2014 dated 4.10.2014

Bid Submission date & time: 13.11.2014, 1730 Hrs

Bid opening date & time: 14.11.2014, 1230 Hrs

Items to be procured: One no. High Dose Radiotherapy (HDR Brachytherapy) unit

Corrigendum/Amendment issued on 20.10.2014 and 8.11.2014

Sr. No.	Bid Clause No.	Descriptions	Electa Limited, Linac House, Fleming Way, Crawley, West Sussex RH10 9RR UK	Varian Medical Systems International AG, Hinterbergstrasse 14 CH-6330 Cham Switzerland
Eligibility and Qualification Criteria	19.1	Earnest money of Rs.4,00,000/- (Rupees four lakh only) or USD 6,700 (US Dollar six thousand seven hundred)	microSelectron HDR Digital Brachytherapy Unit with Oncentra Brachytherapy Treatment Planning System	GammaMedplus iX HDR Afterloader System with Brachyvision Planning System
Quoted Model	Section- IX (a)	a. The Bidder should be (i) a Manufacturer in India or (ii) Indian subsidiary of foreign manufacturer or (iii) authorized dealer / distributor of a foreign Manufacturer.	Bidder is foreign manufacturer.	Bidder is foreign manufacturer.
Operational Requirement	2.1	Device should support HDR mode of treatment. Device should support Intracavitary, Intraluminal, Interstitial, Intraoperative, Surface mould radiation therapy	Yes	Yes
Tech Specs	3	Technical Specifications		
	A	High Dose Rate Remote Control After loading System		

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1	The unit should have a source safe built-in accordance and meeting with the International/ National (AERB Type Approval) standard.	AERB Type approval dated 8th March 2013 for Model: Micro Selection HDR V3 (18 Channel) valid up to 31st March 2016.	Submitted
2	The system should be multi-channel with not less than 15 channels.	18 Channel	24 Channel
3	One set of transfer tubes for each type of applicator should be supplied.	Yes as per compliance	Yes as per compliance
4	There shall be a provision for checking of complete operation of the system prior to actual treatment including electronic and radiation safety checks.	Yes as per compliance	Yes as per compliance
5	Unit quoted should be mobile	Yes as per compliance	Yes as per compliance
6	Should have a built in battery back-up in case of power failure and emergency situation to retract the source to the safe position.	Yes as per compliance	Yes as per compliance
7	Unit should have a mandatory manual retraction facility in extreme case of emergency.	Manual handcrank is provided to retract the source. In case of emergency	Yes as per compliance
8	An emergency service container has to be supplied.	Yes	Yes
9	The unit should have an integrated built-in independent internal and external radiation monitoring system	Yes as per compliance	Yes as per compliance
10	A complete set of quality assurance tools like position check device, calibration devices etc. must be supplied with the unit.	Yes as per compliance	Yes
11	The unit should be based on Iridium-192 (Ir-192) source of strength 10 Ci.	Yes	Yes
12	The source drive should be replaced Free of Cost (FOC) up to 10 years from date of installation.	Not Agreed. However, it is relaxed.	Yes agreed
13	Source and the check cable should be able to negotiate a radius equal or less than 20mm	13 mm-complies	Yes as per compliance

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	14	Treatment control console should be a PC based unit with the latest operating software and latest hardware	Yes as per compliance	Yes as per compliance
	15	Should be user friendly console with a graphical user interface and should contain an extensive reporting facility.	Yes as per compliance	Yes as per compliance
	16	It should have auto correction for physical decay of the radioactive source, display of set time, treatment time, elapsed time, power failure alarm and source struck alarm status and action etc.	Yes as per compliance	Yes as per compliance
	17	It should have self-testing feature including battery, indexer, RAM	Yes as per compliance	Yes as per compliance
	18	Should allow storage of multiple standards and keep track of patients of fractionated treatment.	Yes as per compliance	Yes as per compliance
	19	The access to control console computer shall be restricted to authorized user with password protection.	Yes as per compliance	Yes as per compliance
	20	Control unit should contain a built-in log book and all events should be recorded.	Yes as per compliance	Yes as per compliance
	21	The vendors should quote and supply 20 l/-192 radioactive sources (10 Ci each) as per requirement to the user over a period of 10 years	Agreed in Compliance Statement	Agreed in Compliance Statement
	22	The vendor will be responsible for custom clearance and transport of each source to user site, and installation. he will also be responsible for safe disposal of the source including transport of the source for disposal site and return of container back to the supplier of source.	Agreed in Compliance Statement	Agreed in Compliance Statement
	23	All radiation safety features meeting fully AERB requirements must be complete by the vendor.	Offered product and services are compliant with AERB guidelines.	Agreed in Compliance Statement

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	24	The source certificate from the original source supplier should be provided.	Agreed in Compliance Statement	Agreed in Compliance Statement
	25	Please specify the type, possible step size, the maximum number of dwell positions provided	Step Size 2.5/5/10. Maximum Dwell positions 48 per channel.	24 Channel, 60 dwells per channel, step size: default 5 mm, programmable from 1-10 mm in 1 mm increments.
B.		3D Brachytherapy Treatment Planning System: The state of the art brachytherapy treatment planning system should be supplied with following hardware and software. The planning system must be dedicated part of high dose rate brachytherapy unit	Offered Oncentra 3D Treatment Planning System	Offered BrachyVision Planning System
B.1		Hardware		
	1	Brachytherapy planning system should be PC based state of the art hardware and with the latest user friendly operating system.	Yes as per compliance	Yes as per compliance
	2	HDD 120 GB or more, RAM 1 GB or more	500 GB HDD and 6 GB RAM- complies	Yes as per compliance
	3	DVD Drives as well as Writer should be provided	Yes as per compliance	Yes as per compliance
	4	CD drive as well as writer should be provided.	Yes as per compliance	Yes as per compliance
	5	Four USB ports-with four 2 GB Pen Drive should be supplied	Yes as per compliance	Yes as per compliance
	6	Should supply 21" Flat LCD / LED type monitor	Yes as per compliance	Yes as per compliance
	7	Should supply fast multi colour compatible Laser printer cum plotter to print out data and isodose curves	Yes as per compliance	Yes as per compliance
	8	Should have DVD / External HDD Archiving device	Yes as per compliance	Yes as per compliance
	9	Separate planning and contouring workstation is required.	Yes as per compliance	Yes as per compliance
B-2		Software	Yes as per compliance	Yes as per compliance

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1	Should support all brachytherapy treatment modalities/techniques capable for HDR stepping source.	Yes as per compliance	Yes as per compliance
2	Advanced multiplanner contouring tools should be available	Yes as per compliance	Yes as per compliance
3	Manual and fast auto contouring tools by defining region of interest.	Yes as per compliance	Yes as per compliance
4	Should be possible to input CT and MRI images through network or CD/DVD.	Yes as per compliance	Yes as per compliance
5	Should support multiple localization algorithms including CT and MRI based reconstruction.	Yes as per compliance	Yes as per compliance
6	Planning system should be able to do multiple planner reconstruction of catheters. Reconstruction of catheter or multi planner reformatted images (sagittal, coronal, transverse and ablique plane) reconstructed from the CT & MRI images should be possible. Images based brachytherapy planning software with algorithm to be provided.	Yes as per compliance	Yes as per compliance
7	Inverse optimization brachytherapy planning system should be based on at least dose and volume constraints or Dose Volume Histogram.	Yes as per compliance	Yes as per compliance
8	Treatment planning System should be integrated with the HDR machine should include 3- D brachy planning algorithm. Planning algorithm should include 3D dose calculation algorithm with display and In homogeneity correction based dose calculation algorithm.	Yes as per compliance	Yes as per compliance
9	Transfer of data to treatment console should be possible via network, CD/DVD or memory stick/card.	Yes as per compliance	Yes as per compliance

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	10	Treatment Planning System should be DICOM 3 and DICOM RT compatible with import and export of data for structures and images.	Yes as per compliance	Yes as per compliance
	11	Deleted		
	12	During the warranty period and the comprehensive maintenance contract period of all the software upgrades and updates will be done free of cost.	Agreed in Compliance Statement	Agreed in Compliance Statement
	C. Essential Applicators:			
	1	Standard Gynecological applicators Fletcher type unshielded -2 Set,		
	2	Ring applicator – 1 set		
	3	MRI compatible Gynecological applicators with parametrical needle - 1 set.		
	4	Vaginal Applicator of different sizes un-shield and shield – each 1 sets.		
	5	MRI compatible Multichannel Vaginal applicator -1 set		
	6	Esophagus applicators - 1 set.		
	7	Nasopharyngeal applicators - 1 set.		
	8	Prostate applicators - 1 set.		
	9	Intraluminal applicators set for bile duct - 1 set.		
	10	Mupid Perineal Gynecological template – 1 set		
	11	Template set for breast implant -1 set with template pairs from single plan upto 3 plan implants.	Included in the offer	Included in the offer
	12	All kinds of X-ray markers and dummy source for different type of brachytherapy applicators and implants should be provided.		
	13	Interstitial implant needles - Total 90 nos. of needles in 3 different lengths.		

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14	Transfer tubes for rigid and flexible implants as per requirement taking into account above applicators and needles.		
15	Plastic Catheters single Leader, Double leader and blind end-200 Nos along with buttons different colors--300 nos. Catheter cutter -2 no.		
4 Standard accessories like			
1.	Emergency source container		
2.	CCTV 2 sets of camera & LED/LCD monitors		
3.	Intercom		
4.	Door Interlock		
5.	Semi Orthogonal Reconstruction Box		
6.	Gamma Zone monitor with remote alarm extension (Factory celebrated)		
7.	Source position check device, Source Calibration Jig		
8.	Well Type Chamber with electrometer along with calibration certificate for Iridium 192		
9.	Digital Survey Meter - 2 Nos. along with calibration certificate		
10.	Appropriate Thimble Chamber with calibration certificate for Ir192 competeble with above supplied electrometer		
11.	Digital pocket dosimeter 2 nos.		
12.	Room Thermometer with Calibration Certificate		
13.	Barometer with Calibration Certificate		
14.	Set of QA tool's required for brachytherapy commissioning.		
15	Brachy Treatment Table with all accessories		
5 Power Supply			
5.1	Power input to be 220-240V (Single Phase), 400- 440V (Three phase), 50Hz fitted with Indian plug.	System works at 220-240V (Single Phase), 50 Hz fitted with Indian plug	Yes as per compliance

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5.2	Suitable online UPS with voltage regulation and spike protection with maintenance free batteries for minimum one-hour back-up should be supplied for Booth Machine & TPS.	Yes as per compliance	Yes as per compliance
5.4	Emergency light to be provided in treatment room.	Yes as per compliance	Yes as per compliance
6	Standard , Safety, warranty and Training		
6.1	Both HDR machine and treatment planning system should be European CE / US FDA approved.	Model microSelection V3 and Oncentra are FDA approved. Attached CE certificate is no more valid.	Machine is CE and FDA approved.
6.2	Electrical safety conforms to standards for electrical safety IEC 60601-1-1-2 General requirement for Electrical safety of Medical Equipments	microSelection HDR Digital Brachytherapy Unit with Oncentra Brachytherapy Treatment Planning System are FDA approved, it covers IEC requirement.	Quoted brachytherapy Unit with BrachyVision Planning System are FDA and CE approved, it covers IEC requirement.
6.3	Comprehensive warranty for 3 years and provision of CMC for next 7 year	Yes, offered	Yes offered
6.4	The treatment planning system and treatment unit's operational training should be provided to one Radiation Oncologist and One Medical Physicist at center of repute for 1 week in the country of manufacturer and also on site training of 1 week to staff of deptt.	Agreed in Compliance Statement	Agreed in Compliance Statement
6.5	Certificate of acceptance shall be issued within 30 days from the date of commissioning or minimum 1 fraction each on 5 different patients whichever comes earlier.	Agreed in Compliance Statement	Agreed in Compliance Statement
7	Documentation		
7.1	User, Technical, Maintenance Manual and software CD to be supplied in English.	Yes	Shall be provided
7.2	Certificate of Calibration and inspection.	Shall be provided	Shall be provided

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7.3	List of important spare part and accessories with their part number and costing	Enclosed	Shall be provided
7.4	Log book with instruction for daily, Weekly monthly and quarterly maintenance checklist.	Shall be provided	Shall be provided
7.5	Provide emergency safety procedure in flow chart format in three copy.	Shall be provided	Shall be provided
7.6	Provide radiation safety preparedness program.	Shall be provided	Shall be provided